Computers in Industry 18 (1992) 360–362
Elsevier

Contents of Volume 18

Volume 18, No. 1, January 1992

Applications

1 PLADESS, a model-generating system for plants in a batch or semicontinuous process environment
J. van Luipen en G. de Niet

11 Life-cycle-oriented method for development and production of large-scale industrial mathematics software
W. Loeve

25 Approach to robust multivariable combustion control design
J. Kocijan and R. Karba

41 Circular interpolators for numerical control: A comparison of the modified DDA techniques and an LSI interpolator
F.S. Lim, Y.S. Wong and M. Rahman

53 A microcomputer approach for analyzing food products
L.D. Xu, X.S. Ying and L.X. Li

59 Design and implementation of a monitoring system for NC machines
S.V. De Carvalho, A.E.K. Sahraoui and A. Serrano

67 Designing programming station software for CNC profile cutting
B.S.V. Prasad

Knowledge Engineering

77 An object-oriented knowledge-based system for manufacturability of printed wiring boards
S.K. Padhy and S.N. Dwivedi

Case Studies

91 Computerization of production management information: A case study in a food processing factory
J.C.M. Chan, Y.Y. Hui and D. Sculli

Short Note

99 Stand-alone microprocessor-based central controller for circuit breaker coordination
M. Ahmad and F. Fadul

News from IFIP TC 5

105 CAPE '94

Events

107 Announcements

111 Calendar

Vol. 18, No. 2, February 1992

Applications

117 Computer-assisted mould design for styrofoam products
S.W. Lye and H.Y. Yeong

127 CAD / CAM integration in practice: Two cases of computer-aided toolmaking
A.F. Lennings

Elsevier Science Publishers B.V.

135 DICTUM: Decision support system for analysis and synthesis of large-scale industrial systems. Part I: Components
A. Barnikow, U. Behrendt, K. Hartmann and M. Scharni
145 DICTUM: Decision support system for analysis and synthesis of large-scale industrial systems. Part II: Databases and industrial applications
L. Dietzsch, U. Kroeller and K. Hartmann
155 A metamodel-based decision support system for shop floor production control
L. Lin, J.K. Cochran and J. Sarkis
169 Global methods in multi-objective optimization and their application to a mechanical design problem
E. Santoro

Knowledge Engineering

177 An artificial intelligence approach to precedence network generation for assembly line balancing
K. Sudhir and R. Rajagopalan
193 Applications of expert systems in manufacturing: A case study
L.H.S. Luong

Case Studies

199 Modelling for CIM information systems architecture definition: An information engineering case study
D.A. Grant, O.K. Ngwenyama and H.K. Klein

Short Note

213 Mathematical model of the process for the oxidation of acetaldehyde to acetic acid
Wang Shuqing, Zhang Rufong and Wang Jicheng

News from IFIP TC 5

221 ATPMS '92, PROLAMAT '92, CAPE '94

Conference Reports

227 Modeling in Computer Graphics
229 Process Planning for Complex Machining with AI Methods

Events

233 Calendar

Vol. 8, No. 3, March 1992

Management Information Systems

241 Information systems: A key ingredient to achieving organizational competitive strategy
R. Cardinali

Knowledge Engineering

247 FACES (Forming Attachment of Components Expert System) and issues of its development
H. Soltan and D.K. Hilal

Applications

257 Finite elements for vibration of vehicle transmission system
J.H. Ong
265 PML: Product Modelling Language
P. Gu
279 An application of network scheduling optimization in a pharmaceutical firm
E. Del Castillo

289 AGIPS: Automatic Generator for Insertion and Placement Sequences for printed wiring board assembly
C. Chiu, Y. Yih and T.C. Chang
301 Control system design using a spreadsheet program
Y.-K. Wong
307 Spline interpolation technique for NC machines
S. Bedi and N. Quan
315 Implementation of a microprocessor-based industrial machine
F. Fadul, D. Batistig and M. Baum

Short Notes

323 Forming objects with complicated shapes from equal elements
V.Y. Mikhailenko and S.N. Kovalev
327 A preemptive priority queue with general bulk service and heterogeneous arrivals
D.A. Mohana Dhas, R. Nadarajan and H.W. Lee

News from IFIP TC 5

335 Manufacturing in the Era of Concurrent Engineering
337 Concurrent Engineering for Product Realization
339 Integration in Production Management Systems

Events

341 Call for Papers
345 Announcements
349 Calendar

Indexes

355 Subject Index Volume 18
357 Author Index Volume 18
360 Contents Volume 18